



In the Claims:

Please cancel, without prejudice, claims 2, 4-5, and 14-17.

Please amend claims 1, 3, 6, 12 and 13 as follows:

1. (Currently amended) A method for selecting a mutant miniature plant having a desired trait, comprising the steps of:

(a) providing a population of miniature plants, wherein said miniature plants have the following characteristics: (i) reduced size in comparison to a commercial plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; and (iii) capable of being crossed with a commercial plant of the same species;

(b) generating mutant miniature plants in said miniature plant population by treating said miniature plants with a mobile DNA sequence~~mutation-inducing agent~~ to produce a mutagenized miniature plant population; and

(c) selecting a mutant miniature plant having said desired trait within said mutagenized miniature plant population.

2. (Cancelled)

3. (Currently Amended) The method of claim 1, wherein said mobile DNA sequence~~mutation-inducing agent~~ in step (b) is a T-DNA~~mobile DNA sequence~~ which is selected from the group consisting of a T-DNA and a transposable element.

4-5. (Cancelled)

6. (Currently Amended) A mutant miniature plant population wherein a miniature plant of said population has the following characteristics: (i) reduced size in comparison to a commercial plant of the same species; (ii) matures to produce viable seeds or tubers at a density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; (iii) capable of being crossed with a commercial plant of the same species; and (iv) carries a mutation induced by ~~an agent~~ selected from the group consisting of a chemical mutagen, irradiation, and a mobile

DNA sequence.

7. (Original) The mutant miniature plant population of claim 6, wherein said commercial plant of the same species is used to produce food, fiber or flowers.

8. (Original) The mutant miniature plant population of claim 15, wherein said commercial plant of the same species is a plant which produces a berry-type fruit or a plant of the Solanaceae family.

9. (Original) The mutant miniature plant population of claim 8, wherein said commercial plant produces a berry-type fruit selected from tomato, grape, prune, eggplant citrus fruits, apple.

10. (Currently Amended) A method for producing a mutant population of a miniature plant comprising the steps of:

(a) providing a population of miniature plants, wherein said miniature plants have the following characteristics: (i) reduced size in comparison to a commercial plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; and (iii) capable of being crossed with a commercial plant of the same species; and

(b) generating mutant plants in said miniature plant population by treating said plants with a mobile DNA sequence~~mutation-inducing agent~~ to produce said mutant population of said miniature crop plant cultivar.

11. (Cancelled)

12. (Currently Amended) The method of claim 10, wherein said mobile DNA sequence~~mutation-inducing agent~~ in step (b) is a T-DNA~~mobile DNA sequence~~, ~~selected from the group consisting of a T-DNA or a transposable element.~~

13. (Currently Amended) The method of claim 12, wherein said ~~mutation-inducing agent is a T-DNA and said~~ miniature plants are infected with

Agrobacterium, thus producing multiple transformants wherein each transformant contains a T-DNA insertion in a different genomic position.

14-17. (Cancelled)